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.648-652, figs. 2-9)

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(Nadel et al., 2006: 654, figs. 16, 17b)

(Nadel et al., 2006: 656, figs. 19-20)

(Nadel et al., 2006: 656: fig. 21)

(Nadel et al., 2006: 657-658, figs. 23-24)

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et al., 2006: 658, figs. 25-27)

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.fig. 25-28)

.(Muheisen 1988: 269, fig. 3: 6)

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.(Noy 1991: 558, fig. 2: 1)

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(Crabtree et al., 1991:

() .163, fig. 2)

.(Belfer-Cohen 1988: 305: fig. 5: 5)

(Nahal Ein Gev II)

(Bar-Yosef and Belfer-Cohen 2000: 67, fig. 9: 2)

(Bar-

.Yosef and Belfer-Cohen 2000: 67; fig. 8: 4)

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(Valla et al., 2001: 163-166, figs. 48: 2, 3; (49: 10)
(Valla et al., 2001: figs. 49: 1-3,6, 8; 50: 3-5)

(Edwards 1991: 133, fig. 9: 1)

(Edwards 1991: 133, fig. 10; 1987) ()

(Edwards et al., 1998: 27-28 , fig. 12a)
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.(Cauvin 1991: 304, fig. 10: 2)
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.(Schroeder 1991: 73, figs. 10: 4-6 and 14)

(Cup- " " holes)
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(Bar-Yosef et al., 1991: 415, fig. 10: 7-8)

(Noy 1979:

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.(Yartah 2004: 146, fig. 11)

(Cup-holes)

(Bar-Yosef et al., 1991: 415, fig. 10,11)

.(Noy 1979: 233-234, fig. 1B, C)

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.(Stekelis and Yizraely 1963: 6, fig. 4a, pls. A and C) (:)

(Lechevallier

.and Ronen 1985: 38, fig. 22: 6)

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(Fujii 2009: 185, fig. 17: 16)

(Gebel

.et al., 2004: pl. V4)

(Ferembach and

.Lechevallier 1973: 224, pl. 1)

(Hermansen

et al., 2006: 5, fig. 3)

.(Hermansen et al., 2006: 5, fig. 4)

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.(Schmandt-Besserat 1998: 310 , fig. 6)

.(Bienert and Gebel 2004: , fig. 12: 3 and 5)

(Gebel et al., 2004: 95, fig.

.(:) 13: 26-27, 29-30 and 32)

(Yartah (:)

.2004: 146-147, fig. 12)

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.(Mithen et al., 2009: 124, fig. 9c)

(Ein Suhun)

(Edwards 2007:

.32, fig. 4: 2; Nadel et al., 2000: 82, fig. 8)

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(Bar-Yosef et al.,1991 : 415, fig.

.10:10)

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(Stordeur 2003:

.13-14, fig. 6:3)

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.(Molist 1998: 135-136, fig. 2)

(Betts 1987: 215-

.216, fig. 2; Garfinkel 1998: 211-213, fig. 1: 2)

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.(Bar-Yosef and Gopher 1997 : 55, figs. 3.20 and 3.21)

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(Bar-Yosef et

.al.,1991: 145)

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.(Kirkbride 1966: 34, fig. 8)

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(Rollefson, Kafafi and Simmons 1993: 124-125, fig. 15; Rollefson 1992: 1,
fig. 1)

.(Fujii 2006: 10; 2009: 185, fig. 17: 13-14 and 17; fig. 18)

(Stordeur 1974: 438, fig. 2,1)

.(Stordeur 1974: 438, fig. 1,3; Cauvin 1977: 28 , fig. 8)

.(Kirkbride 1966: 34)

.(Fujii 2006: 8, fig. 4)

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(Yartah 2004: fig. 14: 2)

(Finlayson 2007: 321, fig. 10: 1, SF 98)

(Rollefson 1992: 1, fig. 1) ()

(Rollefson 2002: 6-7, fig. 3a)

(Rollefson 2002:

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al., 2004: 95, fig. 14: 4; Hermansen and Gebel 1996: 11, fig. 1:1)

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 (Belfer-Cohen et al., 1990: 83; Bar-Yosef and Gopher 1984: 87)
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 (Kenyon 1981; 1956)
 (Kenyon 1981:53; 1956: 75, pl. XIII. 1)
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 (Kenyon 1981:
 287; 1956: 75, pl. XIII.1)
 (Cauvin 1978: 28)
 (Strouhal 1973: 235)
 (Kenyon 1957: 61-62; Strouhal 1973: 241)
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 (Kenyon 1957: 60, pl.
 20A)
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 (Rollefson et al., 1989: 118, fig. 2; Rollefson 1985: 55, fig. 6)
 .(Ferembach and Lechevallier 1973: 224)
 (Gebel and Hermansen 2000: 22)
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(Ferembach 1969; de Contenson 1967)
(Ferembach 1969: 50)

(de Contenson 1985: 20; 1971: 281; 1969a: 27; de Contenson and
Van Liere 1966: 171)
(Cauvin 1978: 128, fig. 13; 1974: 49)
(de Contenson 1972: 78-79) -

(Mahasneh 2001)

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(Aurenche 1980: 36-41, fig. 2)

() (Stordeur et al., 2001: 32, fig. 5)
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(Stekelis and Yizraely 1963:2, fig.
4a ; Noy, Legg and Higgs 1973:)

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(Kirkbride 1966) (Rollefson and Kafafi 1997; 1996: 15)
 (Galili 1987: 54) (:) (Kenyon 1956:)
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 - (de Contenson 1969a: 28, illustration 5; 1969b; 1967) 5)
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- (Stordeur et al., 2001: 35, fig. 5: 1)
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- (Lamdan. and Davies
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- 1994: 77)
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- (Kirkbride 1966:13, pl. IVa)
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- 18-19, Pls. VIIIa, IXb; 1966b: 204-205, fig. 6)
- (Kirkbride 1968: 92, pl. XXIV B)
- (Kenyon 1956: 72, pl. X: 2)
- (Kenyon 1956:)
- (Bienert and Gebel 2004: 124, pl. 5; Gebel and Hermansen 2000:
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- (Hermansen et al., 2006: 5, fig. 5)
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- (Simmons and Najjar 2007: 236, fig. 2; 2003:)
- (Rollefson and Kafafi 1994: 14-15,
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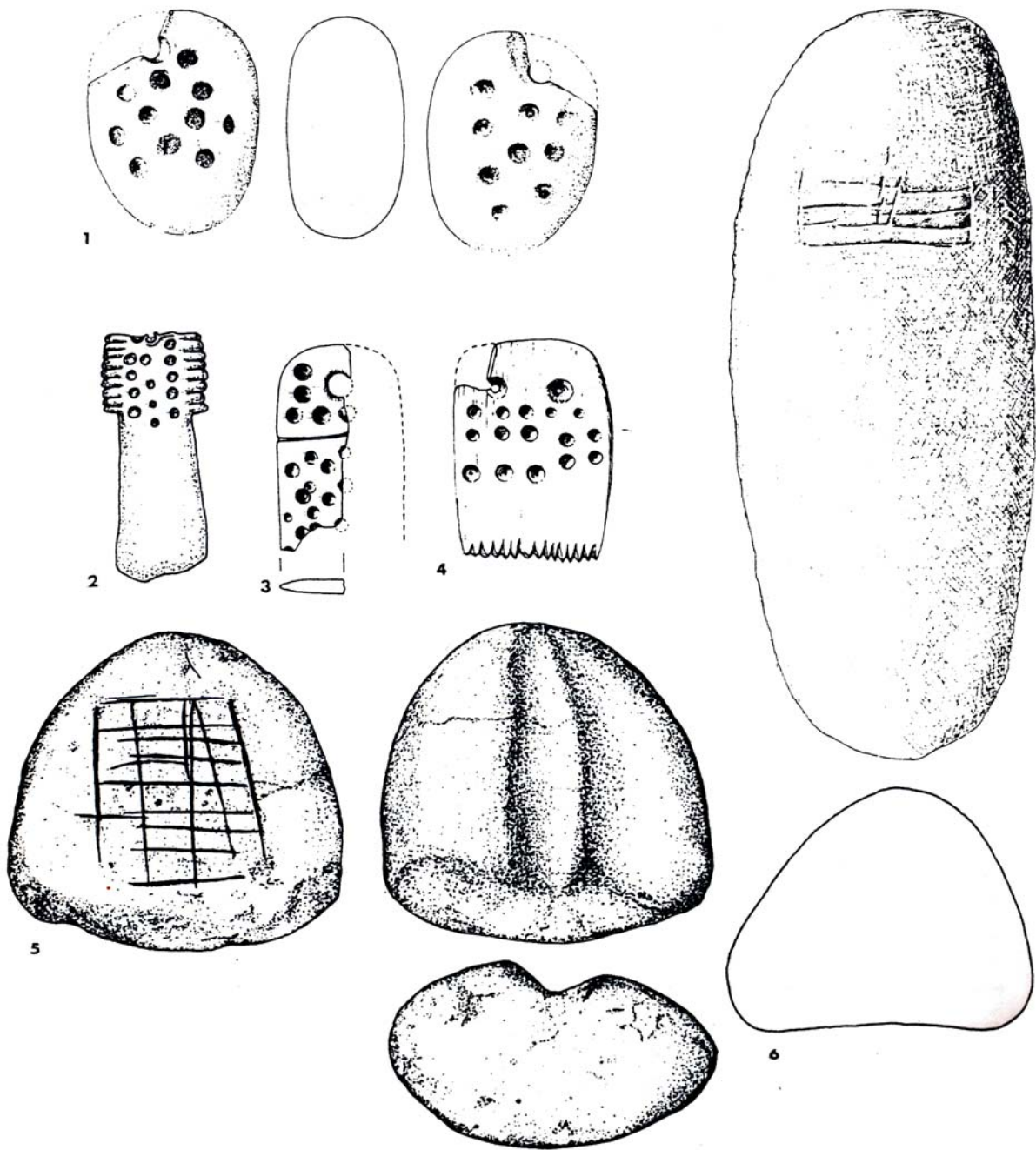
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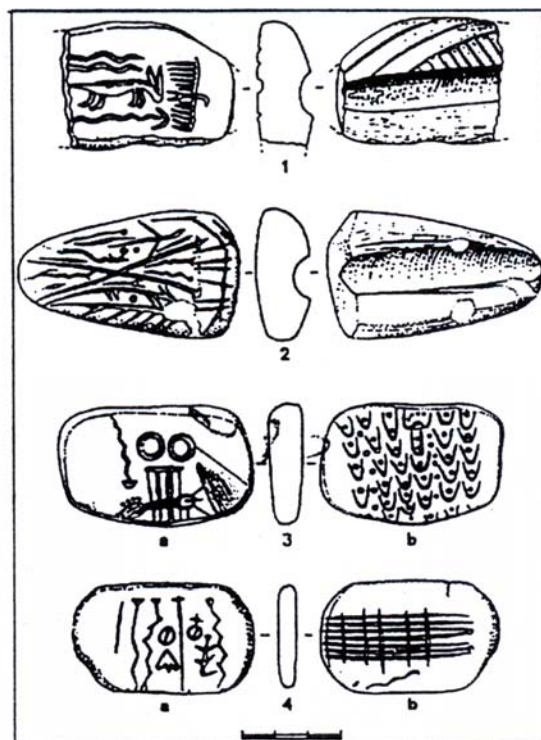
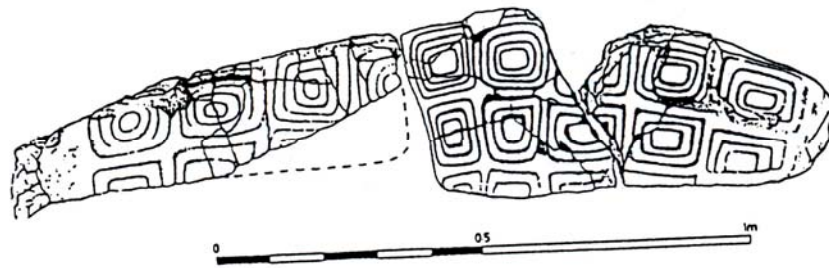
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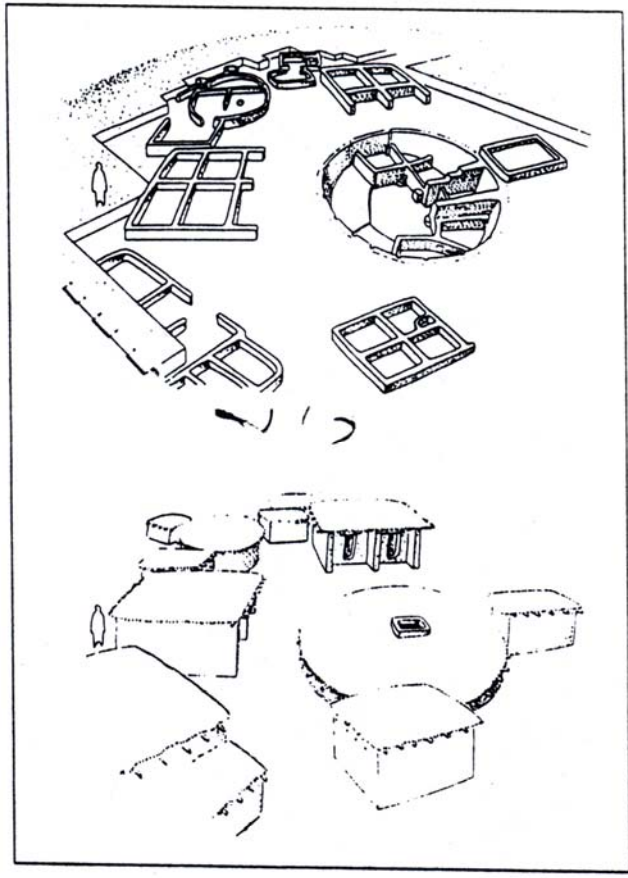
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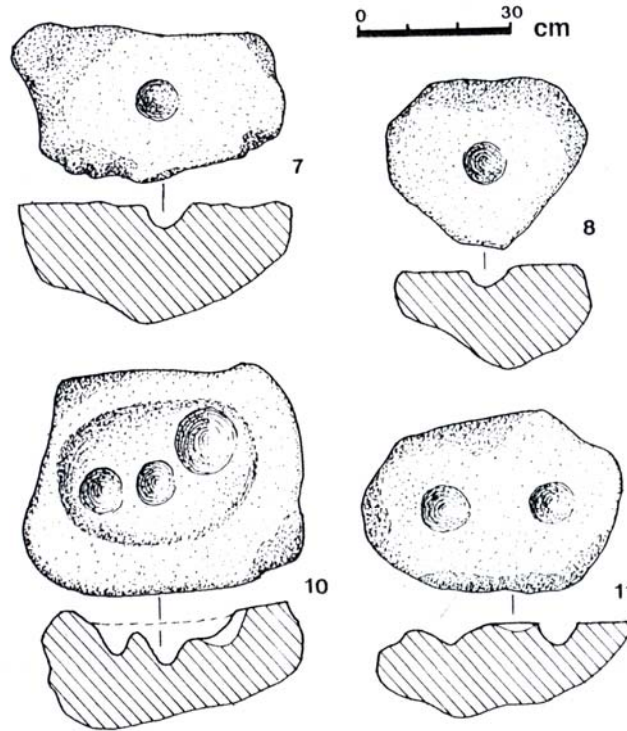
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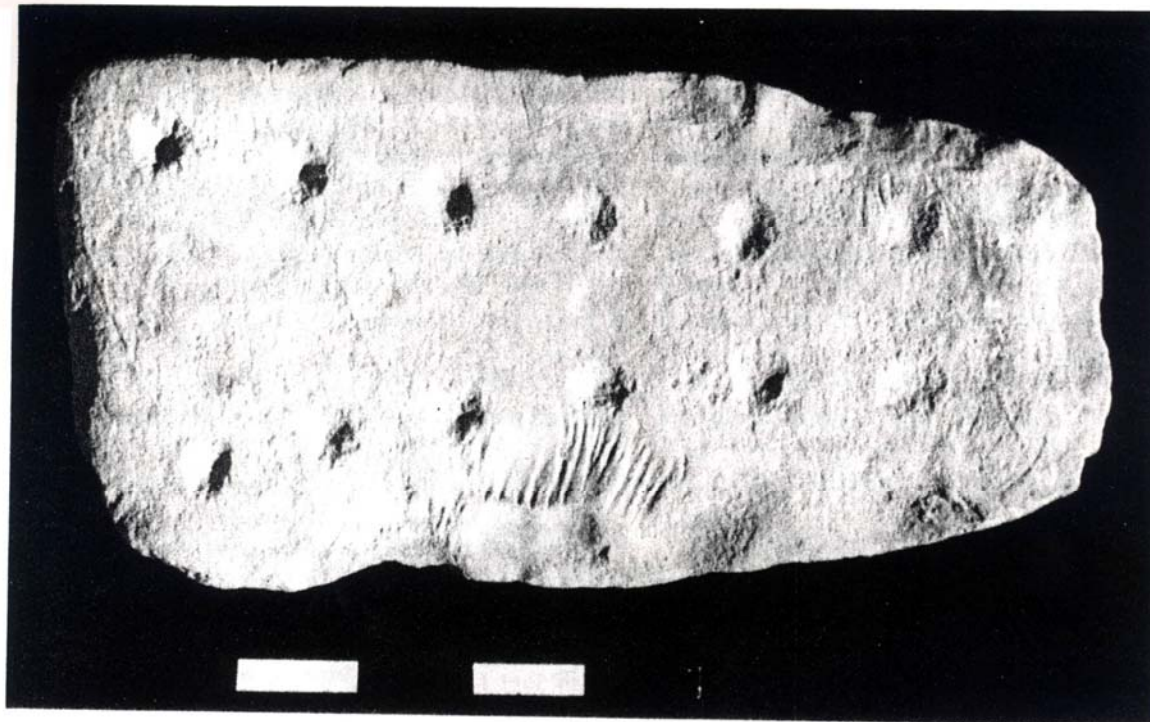
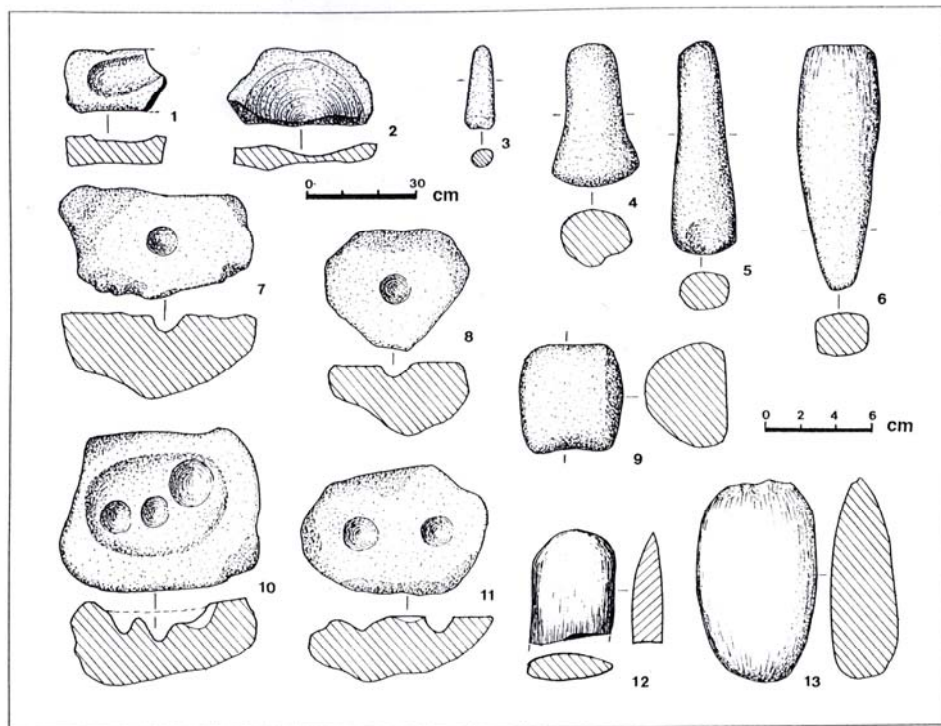


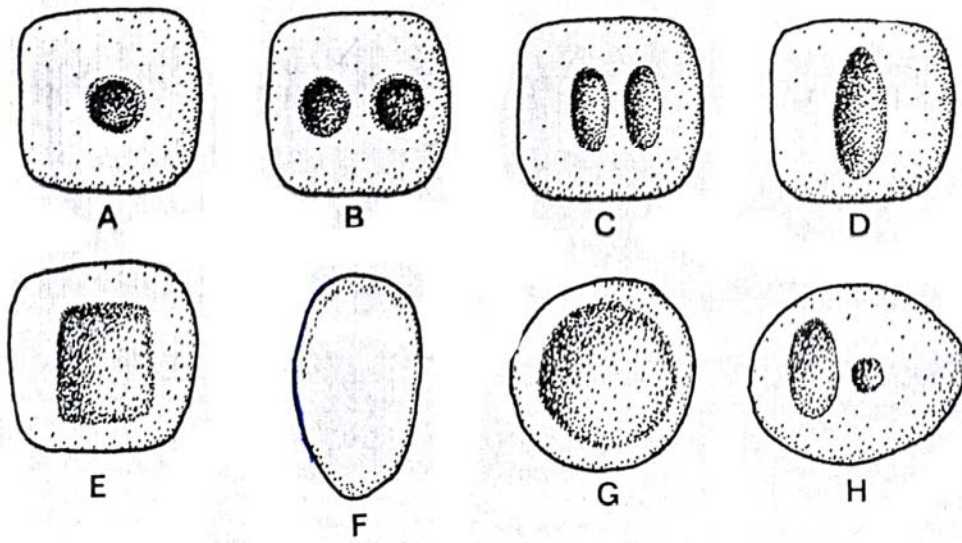
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Numbers and Numbers: Signs and Symbols from Pre-Pottery Neolithic in Bilad al-Sham

Abdel Halim al-Shiyab* and Khaled Abu Ghanimeh*

ABSTRACT

This study examines the knowledge that people in the Levant during the Pre-Pottery Neolithic period had of numbers and numerals through a review of archaeological, architectural and artistic finds and burial customs that contain signs and symbols, deriving from that their knowledge of numbers. The article attempts to evaluate those signs and symbols in order to reach logical conclusions that allow us to determine the knowledge they had of numbers and numerals. There can be no doubt that the recurring presence of those signs and symbols in many locations and varied contexts and forms indicates certain meanings.

KEYWORDS: Numbers, Signs, Natufian Period, Pre-Pottery Neolithic A Period, Pre-Pottery Neolithic B Period.

* Anthropology Dept., Faculty of Archaeology and Anthropology, Al-Yarmouk University.
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